PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Mototsugu OKUSHIMA Serial No. 09/852,735

Filed May 11, 2001

CONFIRMATION NO. 4991 GROUP 2836

Examiner Zeev Kitov

Atty. Docket No. 8023-1018

ESD PROTECTION APPARATUS AND METHOD FOR FABRICATING THE AME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with Rules 1.97 and 1.98, and in fulfillment of the duty of disclosure under Rule 1.56, the accompanying documents, copies of which are attached to this statement, are made of record on the enclosed sheet.

A concise explanation of the relevance of these items is that these references were cited by the Korean Patent Office in the corresponding Korean application. A copy of the Korean Official Action in which they were cited is attached hereto, with what is believed to be the pertinent portion enclosed in a box. An English translation of the enclosed portion is also attached hereto.

The Japanese reference is equivalent to the Korean reference.

Under the provisions of 37 CFR 1.97(e), the undersigned hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart

foreign application not more than three months prior to the filing of this Statement.

Respectfully submitted,

YOUNG & THOMPSON

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Robert J. Patch

Attorney for Applicant Registration No. 17,355

745 South 23rd Street Arlington, VA 22202

Telephone: 703/521-2297

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Re: OKUSHIMA - U.S. Patent Appln. 09/852,735 Ref. NE212-US

Claims 1, 2 and 11 of the present application relate to an ESD protection Device, comprising a trigger element having a diode broken down by excess-voltage (forward voltage) impressed on the semiconductor pad, and a vertical bi-polar transistor for discharging a stored charge of the pad electrically connected by the breakdown of a single or a series of multiple diodes. However, this could be easily invented by one of ordinary skill in the art from the composition of a semiconductor circuit where a protection element base is triggered by at least one trigger means (diode, resistor) as disclosed in Citation 1 (Korean Laid-Open Patent Publication 1999-30302), and from the composition of a protection element which uses a bi-polar transistor having a resistor connected between the base of the bi-polar transistor and the power voltage, as well as by using a Zener diode connected between the base of the bipolar transistor and a mutual connector as disclosed in Citation 2 (US Patent 5,276,582).

Attachments

Attachment 1:

Korean Laid-Open Patent Publication 1999-30302 (April 26, 1999) 1 copy

Attachment 2:

US Patent 5,276,582 (January 4, 1994) 1 copy